FARM AND GARDEN.

Keeping Fruit.

The great secret for preventing decay in fruit through autumn and winter is to preserve a uniformly low temperature. If changing and fluctuating, they quickly rot. Currents of air are bad, because they make changes in temperature. We find that apples keep longer in winter by merely wrapping each specimen in tissue paper and thus excluding air. Hence the advantage of packing in any soft, powdered dry sawdust, as bran, ground plaster, or bedding in moss. On a large scale this cannot be done and large fruit rooms must therefore be kept cool without changes of air. Much may be accomplished by ventilating windows, admitting cold air in the night, and excluding warm air in the daytime by closing them. These remarks apply more particularly to apples and pears, and also to grapes. They would also apply to small and perishable fruits, if it were an object to keep them, but the common practice is to consume them while fresh .- Country

Climate Influence on Cheese.

While quality is conferred upon cheese by care and skill in making, and by its contents of fat, there are some other causes for the variation in quality. Soil and climate have something to do with quality, for they control, to some extent, the character of the herbage, and undoubtedly food has much to do with the flavor of its products. The flesh of animals acquires certain qualities from the feed. Southdown mutton, fed upon the rich herbage of the "downs," or hilly sea-side pastures on the chalk districts of Southern England, and the tender, highflavored meat of the Welch mountain sheep, are examples of this fact. The hams of Westphalia, fed upon the mast of the forests, also have a most agreeable flavor. The wines of some vineyards surpass those of all others in richness of flavor, and the hops of certain localities surpass all others in desirable qualities. Consistently with these analogous facts, it cannot be doubted that the pasture, which is affected by soil and climate, has some effect upon the character of dairy products. But the expert and experienced dairyman may make up for all defects in these respects by good culture, fertilizing, and the growth of such crops as will afford every necessary element in the food for the production of good milk, and by such skill in the manipulation as will produce the very best qualiity in the butter and cheese made from it. - American Agriculturist.

Peeding Buttermilk to Pigs.

Buttermilk is a highly nitrogenous food, containing, as it does, about one part nitrogen and two parts carbon, the proportion of nitrogen being twice as much as necessary for profitable feeding, that is, to feed it without waste. Corn meal, on the other hand, is highly carbonaceous, containing eight to nine parts carbon to one part nitrogen. is at least twice as carbonaceous as it should be for feeding growing pigs, just as buttermilk is too nitrogenous.

Now a due admixture of these two feeds will properly balance the ration and secure the greatest economy both in preventing waste and providing the greatest amount of nutriment. In feeding pigs at the Wisconsin agricultural experimental station the rule has been to allow one pound of corn meal to every gallon of buttermilk. This serves the ration still strong in the nitrogenous element necessary to promote growth. As the pigs advance in size and fat is more desirable than growth, more corn meal is added. This makes the food more carbonaceous and causes the hogs to lay on more fat.

In some experiments made at the Massachusetts agricultural experimental station-counting corn meal at \$28 per pounds-it was found that a pound of pork, fed at first on a slop made of 12 ounces of corn meal for every gallon of buttermilk, cost but 4.6 cents; but that after gradually increasing the corn meal until it reached within a fraction of two pounds of the meal to each gallon of the buttermilk, the cost of making a pound of pork amounted to 5.73 cents. This latter was in the coldest part of the winter, and it was thought that the differance in temperature (requiring, as it did, a more carbonaceous food) accounted in in a great measure for the difference in the cost of the pork .- Baltimore Sun.

Retarding Trees to Escape Frost.

It has been generally supposed that by planting an orchard or vineyard on the northern slope of a hillside it would rewould accelerate.

comparison with that of the heat of the air. True, a tree planted on the south side of a building or fence in a sheltered exposure will blossom earlier, but that is from the reflected heat from the wall heating the air, and has the greater effect the nearer to the wall it is placed. We have a plum tree planted in cold, damp ground, within four feet of the south side of a frame barn. The branches growing towards the barn blossom a week or ten days before those fresh bite at the young feed. Where a growing in the opposite direction. The same effect is shown by a peach tree near-by.

An Isabella grape vine trained within a couple of inches of the southwestern | There are now scores of farmers in this side of a brick kitchen wall blooms and ripens its fruit ten days earlier when into a grain field just before as just against the chimney flue than the after harvest. But when the clover bebranches of the same vine even a foot | gins to blossom in fall light pasturing away from it trained against the cold sufficient to keep the heads down is not nart of the wall.

In graperies under glass the vines are usually planted in a rich border outside of the building, and the vine brought in through an opening in the front wall under ground. Though the roots are in the cold ground outside, the branches inside, if the house is heated, it will grow and fruit during the coldest weather in winter.

These instances show that it is the heat of the air that brings forward vegetation and not the heat of the ground, and that those who place litter over the snow to keep it from melting or who heavily mulch round the roots of trees in early spring to retard their blossoming and preserve from early frosts, get their trouble for nothing, as those mulched and unmulched will blossom at the same time, it depending entirely on the heat of the weather or the air.

Many experienced horticulturists, no doubt, know these facts, but the great mass of the people do not-hence the reason why we write. -- Witness.

Farm and Garden Notes.

Cheesy taste in fell butter is attributed to imferfect cleansing of the butter from the buttermilk.

Refuse from steel works, freed from iron and reduced to powder, represents the newest fertilizer.

Foul air poisons farm animals as rap idly and surely as it does human beings. Ventilate the stables. Melons grow and ripen best in newly

cleared forest land, says a correspondent of American Cultivator. According to Dr. Phares of Mississippi the best beef is made from well-matured

animals, no matter how old. Onions will not keep well, if piled up, but in a cool place there will be no difficulty with them if they be spread in

Colts halter-broken and accustomed to lead by the side of the mother, to buggy or wagon, when driven, are thoroughly broken to lead.

Raw meat, chopped fine and fed once a day, will produce more eggs than any other food given a hen. Give one pound of rough, lean meat to fifteen hens.

"The hog is naturally the cleanest animal known," affirms a writer, who also attributes swine cholera largely to the

use of corn as food for growing pigs. The fall is an excellent time to sow blue grass, broadcasting the seed evenly, ten pounds to the acre, on ground that is well prepared, manured and har-

Ripe pumpkins are considered profitable food for beef cattle, milch cows and hogs by many farmers. The seeds have an injurious action and should be removed.

A new pear, exhibited at the recent New York State Fair, is the Barseckel, a cross between the Bartlett and Seckel. It resembles the former in shape, is of medium size, greenish skin, and juicy; flesh of fine grain.

The shorthorn breeds of cattle have become so generally distributed over the country that but comparatively low prices are now realized for the animals at public sales. And yet it would be wise for farmers to stock up with the

When hogs have the run of a field, it is rarely the case that they will get so feverish as to be foundered all over, but they will often get quite stiff. The corn should be mixed with bran or oats, and only half of the bulk of the food should be of the corn or carbonaceous sort. Such fevered pork is not the thing to eat. When hogs are fed all the cornmeal they will eat, one-third of it is

Few farmers are aware, says the American Cultivator, that the apple-tree borer also attacks and destroys trees of mountain ash. Not only may this beautiful tree be swept away from lack of care in guarding against this enemy, but ton and buttermilk at 16 cents per 100 | the borers bred in mountain ash may in their turn carry destruction to neighboring orchards. Now is the time to look for the work of the borer in either kind

The French mode of killing poultry causing instant death and perfect bleeding, is accomplished by opening the beak of the fowl and with a sharp pointed and narrow-bladed knife making an incision at the back of the roof of the mouth, which will divide the vertebræ and cause immediate death, after which the fowls are hung up by the legs until bled. They are then picked when warm. In this way the skin presents a natural appearance.

-- "It is not the nature of a cow," says the National Live-Stock Journal, discussing the question of the amount of exercise a cow requires, "to exercise tard the time of flowering, while by much. She prefers in the open field to planting on the southern exposure it quietly crop the grass until her stomach is full, and then lie down in the shade If this has any effect it is trifling in and peacefully chew her cud with a dreamy expression of the eye that denotes rest and enjoyment. She does not run and cavort like the horse.

This is not her mission." Farmers think more highly of the young clover than they used to, and are learning to treat it more decently, says the Philadelphia Press. Grain and stubble used to be turned into as soon as the crop was secured, partly to save scattering grain, but mainly to let stock get a clover plant is eaten down to the root the growth of the latter is much impaired. The plant more easily becomes a victim to the severity of winter. country who would as soon turn stock

HOW BEN, EUTLER GOT RICH. Young Men of To-day May do Likewise if They Follow Advice Given.

General B. F. Butler being asked for some suggestions on gaining success, stated that when he was a young lawyer, practicing in Lowell, Mass., a bank president advised him to take his little deposit and buy real estate, from which he could be deriving some revenue. The General said that he had but little money and was uncertain as to his fu-

"Never mind," said the bank President, go to the next public auction of real estate. bid off a lot with a building of some sort on it, pay down what money you have and give your promissory notes for the balance. You will come out all right.'

General Butler says this advice was good. When a man has obligated himself, by his notes, to pay money at a certain time, it inclines him to economy. He followed the advice, and in time became the owner of several parcels of valuable real estate in Lowell.

Two classes will not be likely to heed such advice-the improvident and the over-cautious. The latter will be apt to say: It would be all right but for those dreadful promissory notes. They are always running on and if a man falls sick they do not wait for him to get well."

There is this danger, of course, but one can make no business venture without some risk, and with the knowledge acquired by recent investigations of the cause of most ordinary ailments, and the means of cure, one runs little risk from that source. It is now known that most of the common ailments have their origin in deranged kidneys. They are the chief blood purifiers of the system and when disordered a breaking down somewhere is soon inevitable, because the poison, which in their healthy condition is eliminated, is carried through the entire system.

Put them in order, and health returns. C. D. Dewey, a successful man, president of the Johnston Harvester Company, Batavia, N. Y., gives his experience as fol-

In 1882 my health was failing, my head pained me constantly, my appetite was uncertain, I could not sleep soundly. I attrib-uted this to the extreme pressure of business cares, but I grew worse, and finally was confined to my bed for two months. It seemed as though I would "never recover" my former health. Under the aid of stimulants I gradually gained strength, so that in a few months I was able to attend to business, but I could walk only with the assistance of a cane, and then in a slow and unsteady manner. I continued somewhat in the same condition until February last, when I used Warner's safe cure. It has cured me. I consider it a valuable remely and can highly recommend it.

Young men have but to use ordinary prudence, and when any derangement occurs if they use the same means as did this successful business man, they may feel a constant assurance of their ability to carry to successful conclusion all ordinary business projects, including the care of their promissory notes

SELECT SIFTINGS.

Files were in use among artisans as early as 1093 B. C.

Leaden pipes for the conveyance of water were brought into use in 1236.

Licenses for the increase of the public revenue originated with Richard I. about 1190.

The earliest known letter is that sent to Joab by David, by the hand of Uriah, about 1035 B. C.

The first idea of electricity was given by the friction of two globes of quicksilver in the year 1647.

About eleven thousand patriots of the revolution perished on board the horrible prison-ship Jersey during the English occupation of New York.

The great London fire in 1666 destroyed eighty-nine churches (including St. Paul's), many public buildings and 13,200 houses, and made homeless 200,-000 people.

The finest relic of the mound-builders yet discovered was dug up from a mound near Neillsville, Wis., recently. It is an implement resembling an adze and is made of pure copper. It weighs four and one-half pounds.

The original Bartlett pear trees, named after Enoch Bartlett, still stand on his grounds, near Boston, and are over fifty years old. Twenty years ago a new top was grafted upon these old trees, and they still bear fine fruit.

The original warrant on which John Bunyan was arrested for the imprisonment during which he wrote the first part of "The Pilgrim's Progress" has recently been found in England. It fills a half sheet of foolscap; is dated March 1674, and in it Bunyan is described

"Tynker."

In the early days only a few scholars and priests knew how to write. It was then customary to sign a document by smearing the hand with ink and impressing it upon the paper, at the same time saying, "Witness my hand." Afterward the seal was introduced as a substitute for the hand mark, the two forming the signature. This is the origin of the expression used in modern documents.

Discipline the Eye.

A very good way to discipline the mechanical eye is to first measure an inch with the eye, then prove it with a rule, then measure a half-inch, then an eighth, and so on, and you will soon be able to discover at a glance the difference between a twellth and a sixteenth of an inch; then go to three inches, six, twelve and so on. Some call this guessing; there is no guesswork about it. It is measuring with the eve and mind. Acquire the habit of criticising for imperfections every piece of work that you see; do everything as nearly as you can without measuring (or spoiling it), or as nearly as you can trust the eye with its present training. If you cannot see things mechanically, do not blame the eye for it; it is no more to blame than the mouth is because we cannot read, or the fingers because we cannot write. A person may write a very good hand with the eyes closed, the mind, of course, directing the fingers. The eve is necessary, however, to detect imperfections. Every operation in life requires a mechanically trained eye, and we should realize more than we do the great importance of properly training that organ.

How to Build Up a Town.

Talk about it. Write about it. Speak well of it. Help to improve it. Beautify the streets. Patronize its merchants.

Advertise in its newspapers. Speak well of its enterprising, publicspirited citizens.

If you are rich invest in something, employ somebody, be a rustler.

If you don't think of any good word to say, don't say anything bad about it. Remember that every dollar you invest in a permanent improvement is that much

Be courteous to strangers that come among us, so that they go away with a good impression.

Always cheer up the men that go in for improvements. Your portion of the cost

will be only what is just. Don't kick about any necessary public improvements because it is not at your own door, or for fear that your taxes would be raised 15 cents. - Ripon (Wis.) Commonwealth.

The Gulf, Stream has a velocity of five miles, and is fifty miles wide in its narrowest place.

Blowing Up Hell Gate

has been a laborious and costly work, but the end justifies the effort. Obstruction in any important channel means disaster. Obstructions in the organs of the human body bring inevitable disease. They must be cleared away, or physical wreck will follow. Keep the liver in order, and the pure blood courses through the body, conveying health, strength and life; let it become disordered and the channels are clogged with impurities, which result in dis-ease and death. No other medicine equals Dr. Pierce's "Golden Medical Discovery" for act-ing upon the liver and purifying the blood.

A PROFESORSHIP of horticulture has been created at Co nell University and attached to the agricultural department.

"The Proper Study of Mankind is Man," says the illustrious Pope. If he had included woman in the list, he would have been nearer the truth, if not so poetical. Dr. R. V. Pierce has made them both a life study, especially woman, and the peculiar derangements to which her delicate system is liable. Many women in the land who are acquinted with Dr. Pierce only through his "Favorite Prescription," bless him with all their hearts, for he has brought them the panacea for all those chronic ailments peculiar to their sex; such as leucorrhœa, prolapsus and other displacements, ulceration."internal fever," tendency to internal cancer, and other ailments. Price reduced to one dollar. By druggists.

Ir takes nearly 100,000 000 foreign eggs a month to keep the English in cakes and pud-

No Trouble to Swallow Dr. Pierce's "Pellets" (the original "little liver pills") and no pain or griping. Cure sick or bilious headache, sour stomach, and cleanse the system and bowels. 25 cts. a vial.

DAKOTA claims a poulation of 567,477, a gain in the last year of 18,477.

The Youth's Companion

has recently been increased in size, making it by far the cheapest Illustrated Family Weekly published. That it is highly appreciated is shown by the fact that it has won its way into 400,0.0 families. The publishers issue a new Announcement and Calendar, showing increased attractions for the new year. If \$1.75 is sent now, it will pay for The Companion to Jan., 1889, and you will receive the admirable Double Thanksgiving and Christmas Numbers, and other weekly issues to Jan. 1st, free.

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To the Editor:—Please inform your readers that I have a positive remedy for the above named disease. By its timely use thousands of hopeless cases have been permanently cured. shall be glad to send two bottles of my remedy FREE to any of your readers who have consumption if they will send me their Express and P. O. address. Respectfully,
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When Catarrh has taken a strong hold on the sastem Taylor's Hospital Cure, 264 B'way. New York, reaches, by means of the Nebulizer, the very seat of the trouble.

'ROYAL GLUE' mends anything! Broken (hina, Glass, Wood. Free Vials at Drugs & Gro.

Ringing Noises

snapping like the report of a pistol, are caused by catarrh, that exceedingly disagreeable and very common disease. Loss of smell or hearing also results from catarrh. Hood's Sarsaparilla, the great blood purifier, is a peculiarly successful remedy for this disease, which it cures by purifying the blood. If you suffer from catarrh, try Hood's Sarsaparilla, the

" I have been troubled with that annoying disease, nasal catarrh, and have taken all kinds of blood purifiers, but never found relief till I used Hood's Sarsaparilla."-J. L. ROUTT, Marksburg, Ky.

Hood's Sarsaparilla Sold by all druggists. \$1; six for \$5. Prepared only

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Rheumatism, Coughs, Cold in the Head. Asthma, Pneumonia. Headache,

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INTERNALLY, a half to a teaspoonful in half a fumbler of water will in a few minutes cure Cramps, Scasms, Sour Stomach, Nausec, Vomiting, Heart burn, Nervousness, Sieeplessness, Sick Headache, Diarrhosa, Colic, Flatulency and all internal pains.

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The Great Liver and Stomach Remady For the cure of all disorders of the Stomach, Liver. Bowels, Kidneys, Bladder, Nervons Diseases, Pemale Complaints, Loss of Appetite, Headache, Constipa-tion, Costiveness, Indigestion, Biliousness, Fever, Inflammation of the Bowels, Piles and all derange ments of the Internal Viscera. Pur-ly vegetable, containing no mercury, minerals or deleterious drugs.

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Dyspepsia, Foul Stomach, Biliousness will be avoided, and the food that is eaten contributes its nourishing properties for the support of the natural waste of the body.

1 To Observe the following symptoms r sulting from discussed the Directive Organs. Constipation, Inward

disease of the Digestive Organs; Constipation, Inward Piles, Fullness of the Blood in the Head, Acidity of the Stomach, Nausea, Heartburn, Disgust of Food. Fullness or Weight in the Stomach. Fullness or Weight in the Stomach. Sour Eractations, Sinking or Fluttering of the Heart. Choking or Suffocating Sensations when in a lying posture, Dimness of Vision. Dots or Webs before the Sight. Fever and Dull Pain in the Head Deficiency of Perspiration, Yellowness of the Skin and Eyes. Pain in the Side, Chest, Limbs and Sudden Flushes of Heat. Burning in the F.esh.

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As a powerful, invigorating tonic, and to the womb and its appendages in particular. For overworked, "worn-out," "run-down," debilitated teachers, milliners dressmakers, seamstresses, "shop-girls," house keepers, nursing mothers, and feeble women generally, Dr. Pierce's Favorite Prescription is the greatest earthly boon, being unequaled as an appetizing cordial and restorative tonic.
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nervine, "Favorite Prescription" is unequaled and is invaluable in allaying and subduing nervous excitability, irritability, ex-haustion, prostration, hysteria, sparas and other distressing, nervous symptoms com-monly attendant upon functional and organic disease of the womb. It induces refreshing sleep and relieves mental anxiety and de-

Dr. Pierce's Favorite Prescription is a legitimate medicine, carefully compounded by an experienced and skillful physician, and adapted to woman's delicate organization. It is purely vegetable in it composition and perfectly harmless in it effects in any condition of the system. For morning sickness, or nausea, from whatever cause arising, weak stomach, indigestion, dys pepsia and kindred symptoms, its use, in small doses, will prove very beneficial.
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tive cure for the most complicated and obstinate cases of leuccarbea, excessive flowing. painful menstruction, unnatural suppressions rolapsus, or falling of the womb, weak back female weakness," anteversion, retroversion bearing-down sensations, chronic congestion inflammation and ulceration of the womb, in flammation, pain and tenderness in ovaries accompanied with "internal heat."

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